FIG. 1

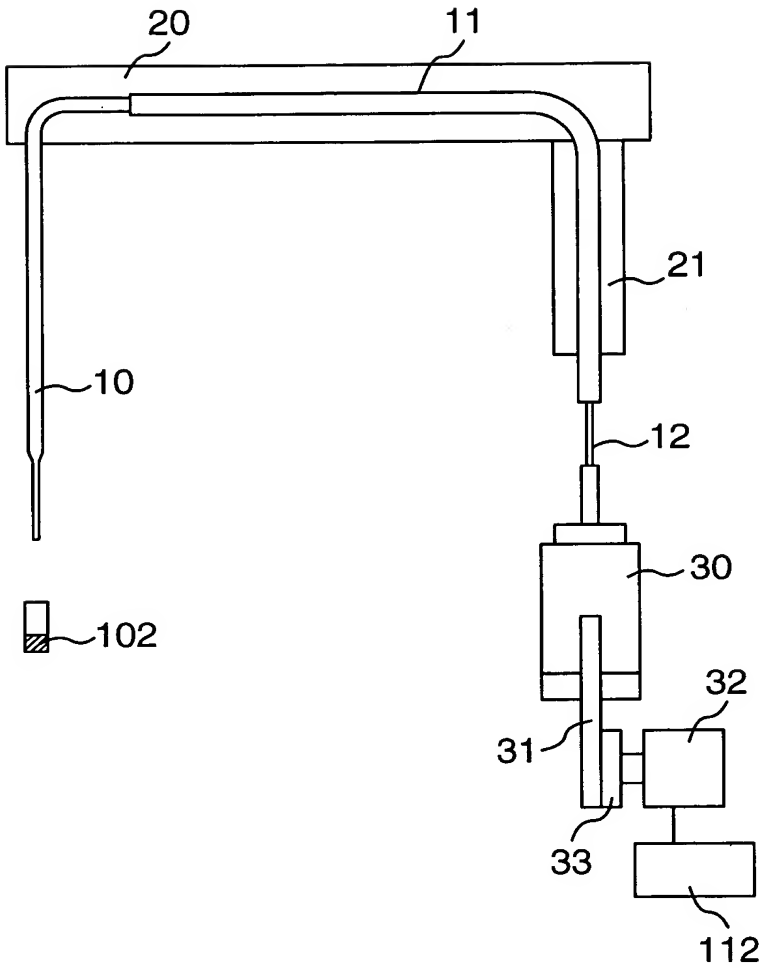


FIG. 2

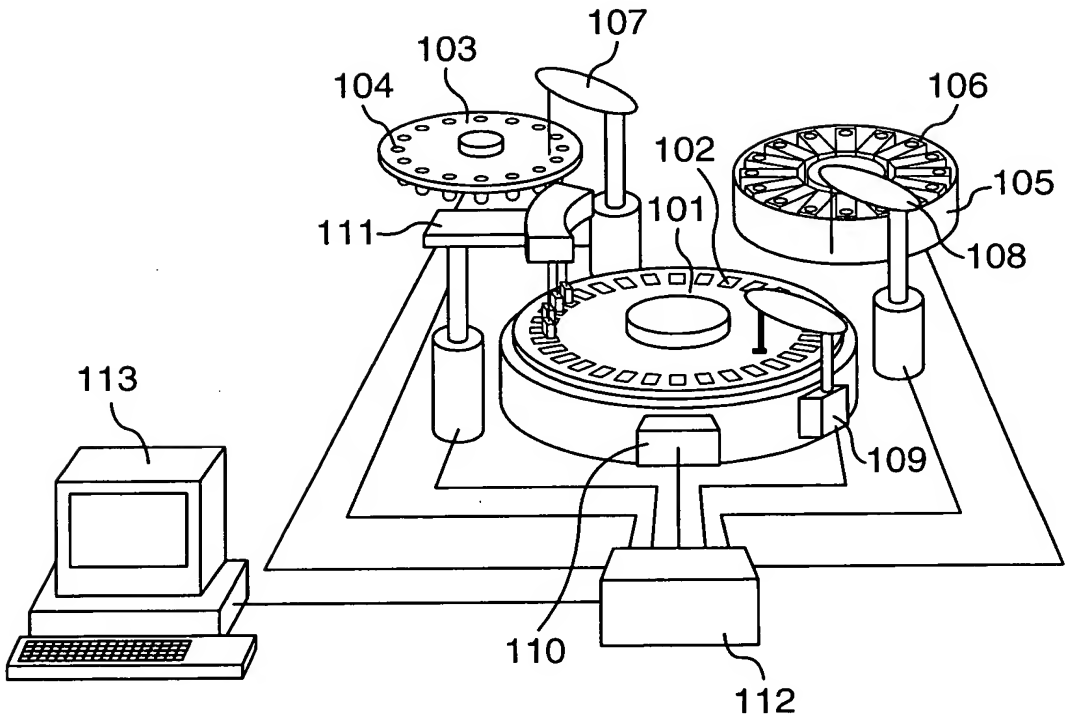
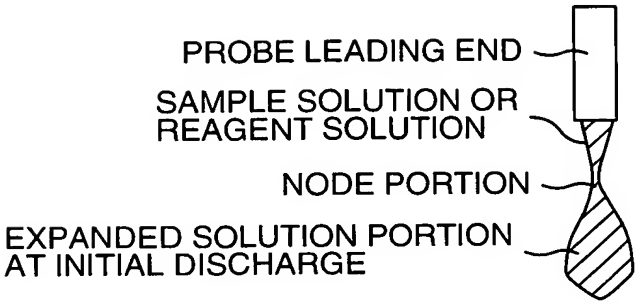
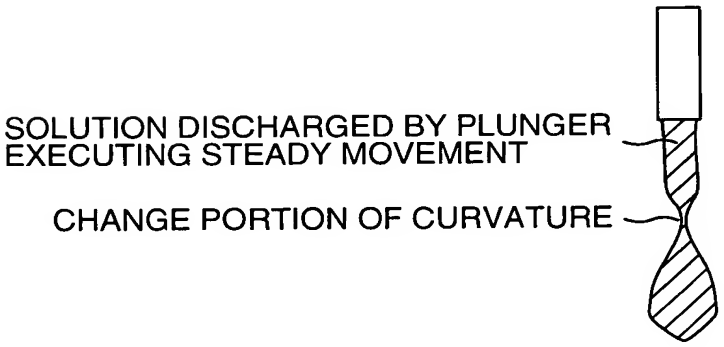


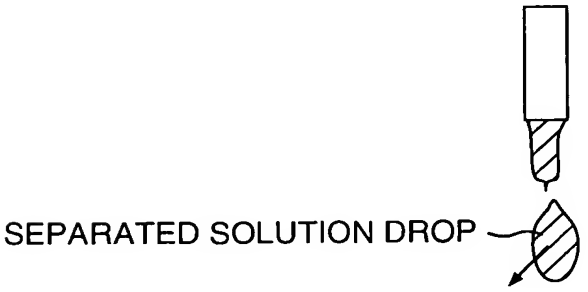
FIG. 3



(a) JUST AFTER STARTING DISCHARGE (FIRST STAGE)

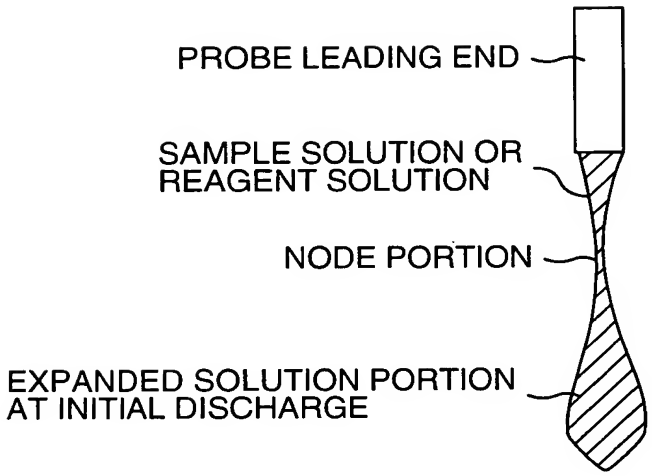


(b) JUST AFTER STARTING DISCHARGE (SECOND STAGE)

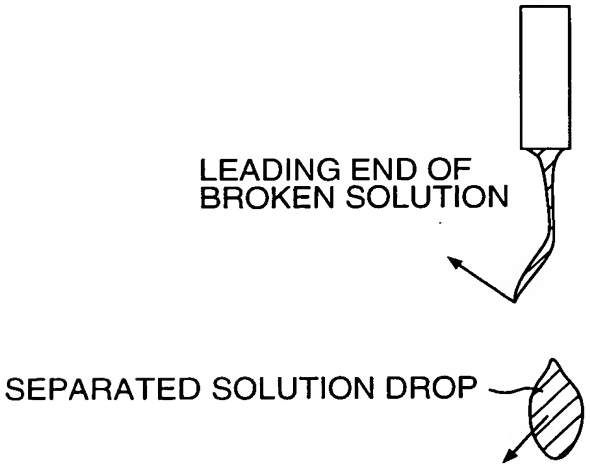


(c) JUST AFTER STARTING DISCHARGE (THIRD STAGE)

FIG. 4

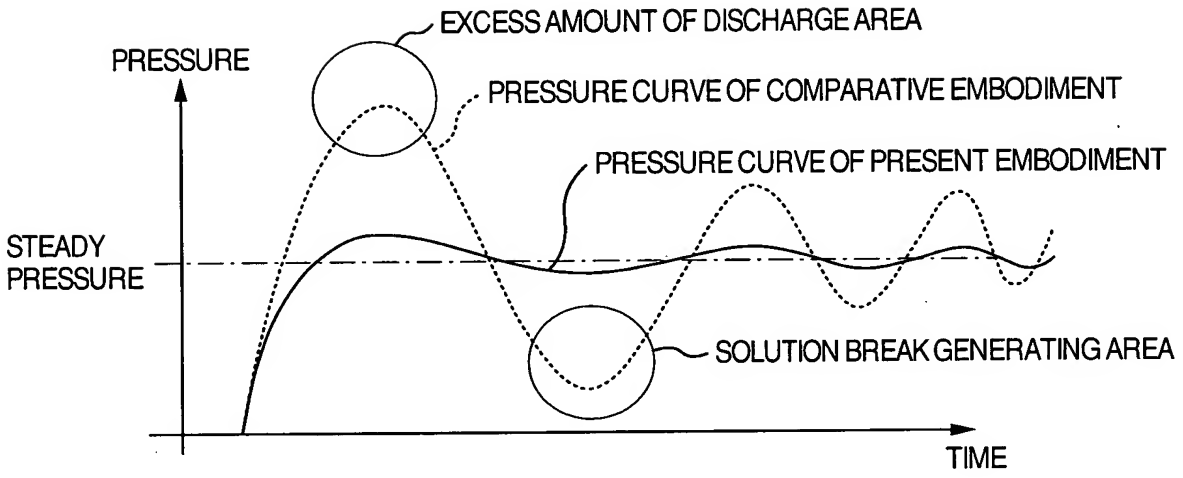


(a) JUST AFTER STOPPING DISCHARGE (FIRST STAGE)

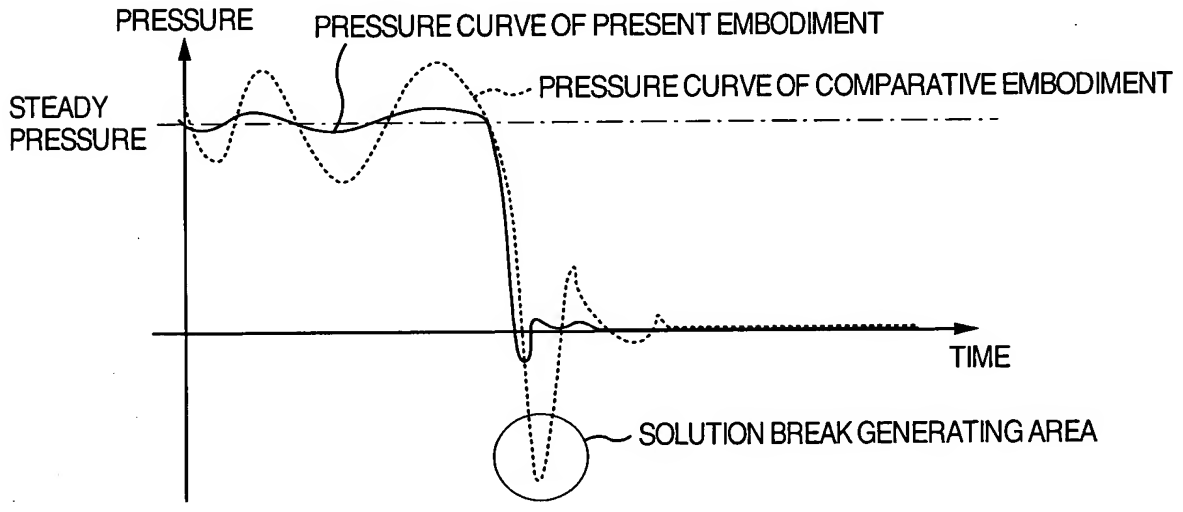


(b) JUST AFTER STOPPING DISCHARGE (SECOND STAGE)

FIG. 5



(a) DISCHARGE STARTING TIME



(b) DISCHARGE FINISHING TIME

FIG. 6

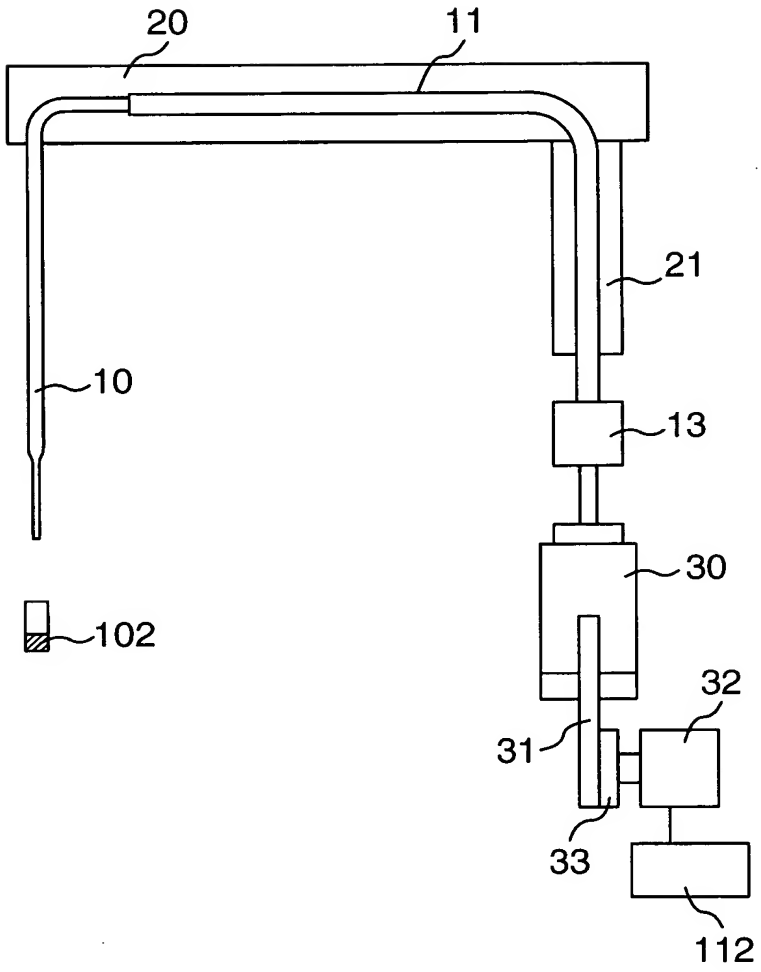


FIG. 7

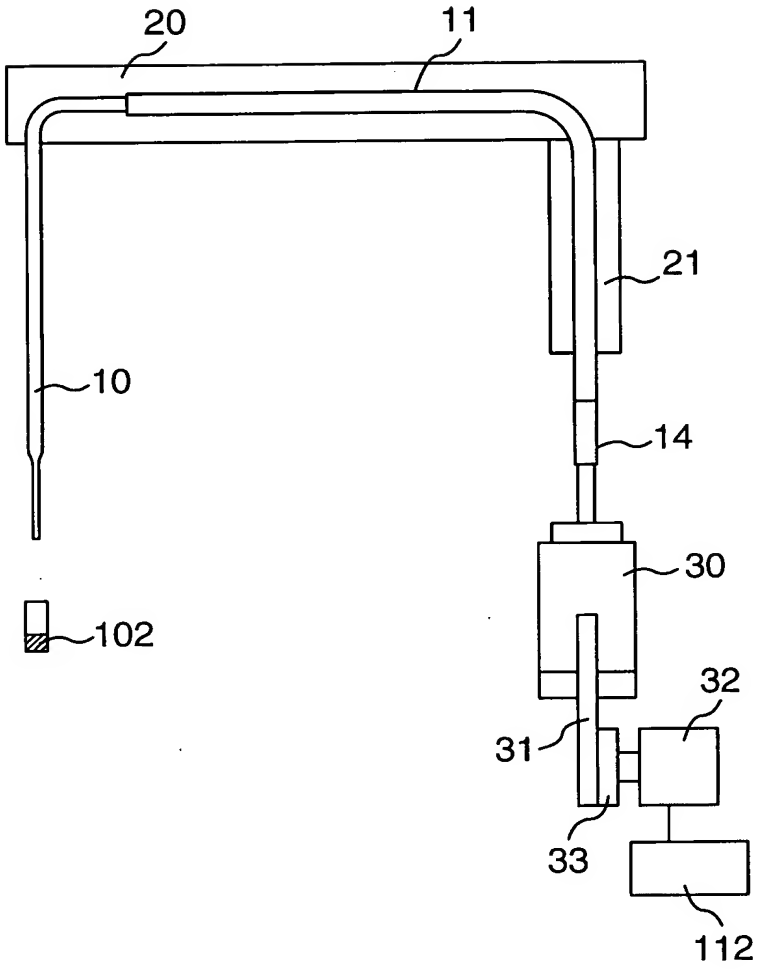


FIG. 8

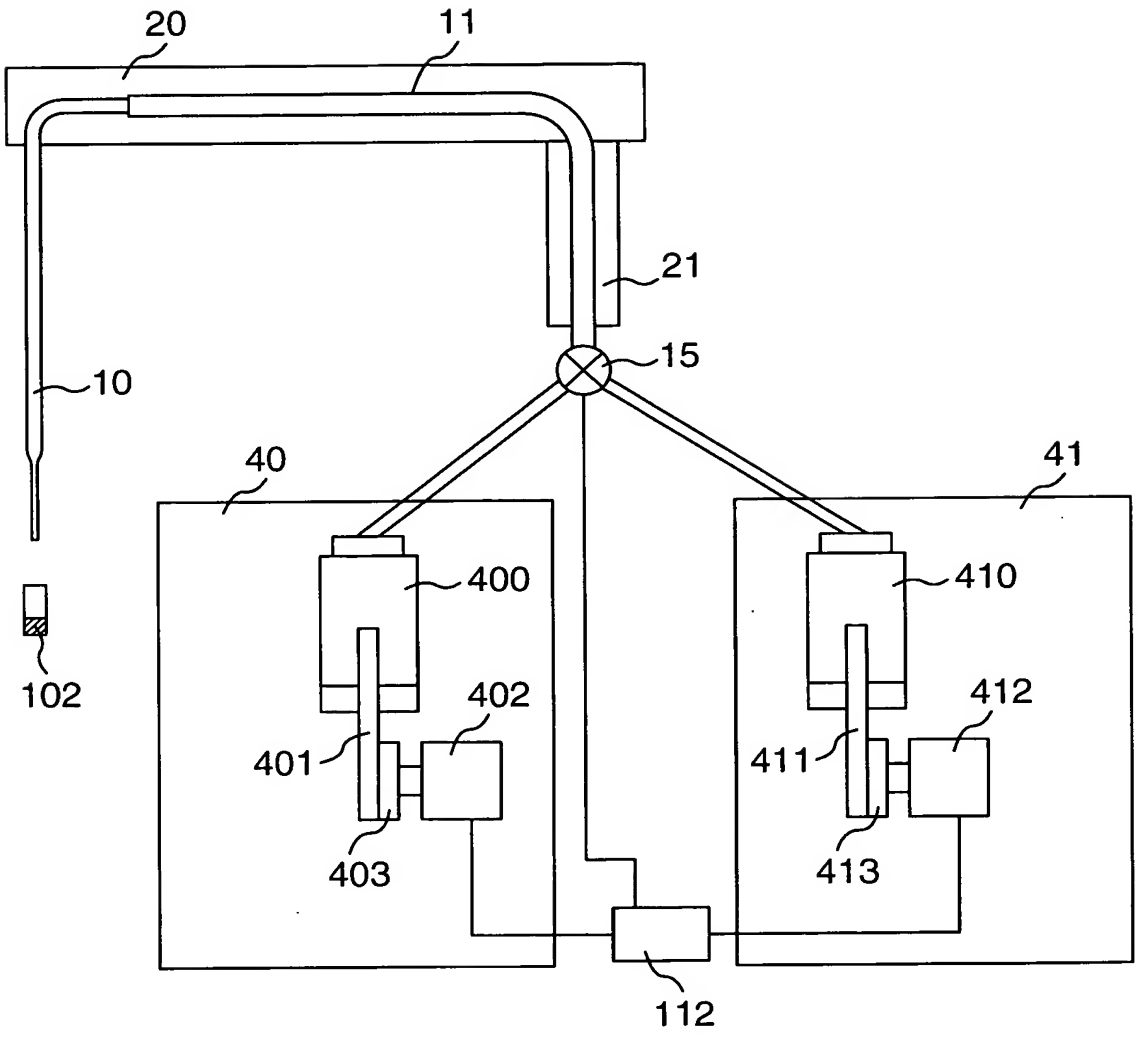
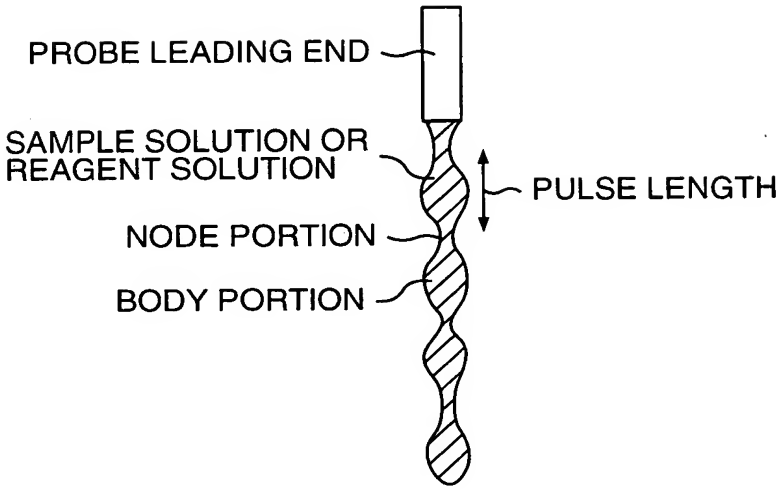
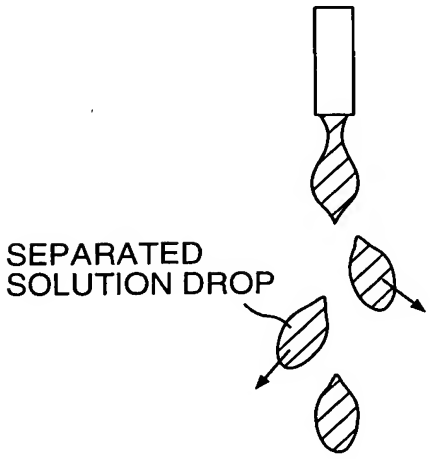


FIG. 9

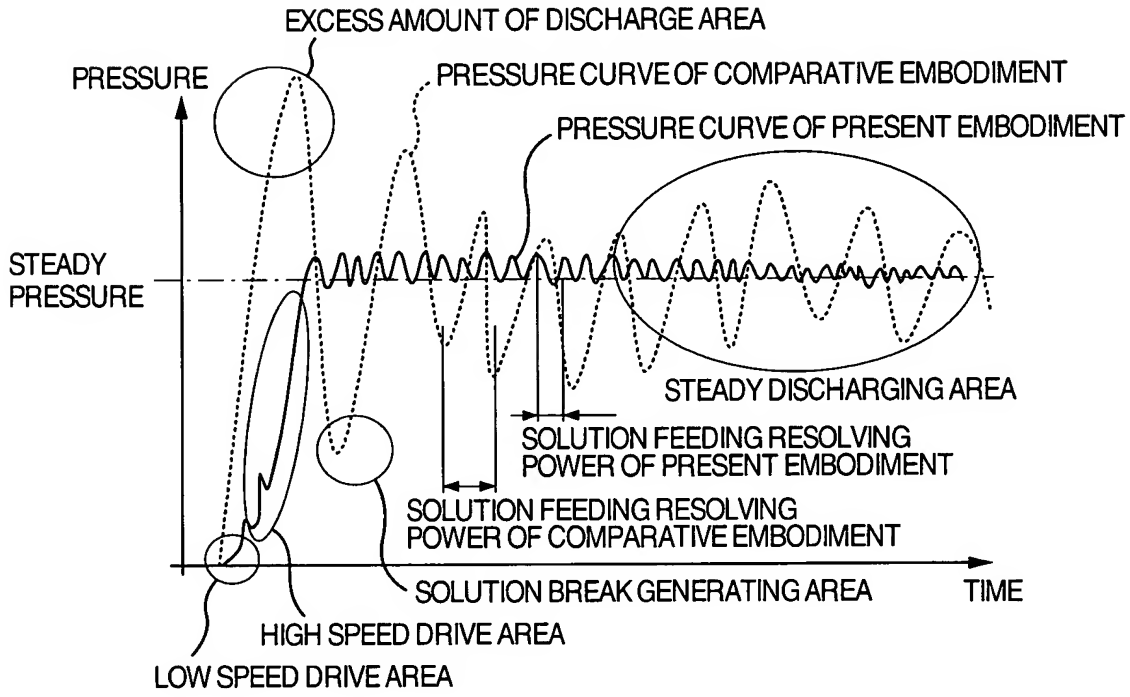

PROBE LEADING END
SAMPLE SOLUTION OR
REAGENT SOLUTION
PULSE LENGTH
NODE PORTION
BODY PORTION

(a)

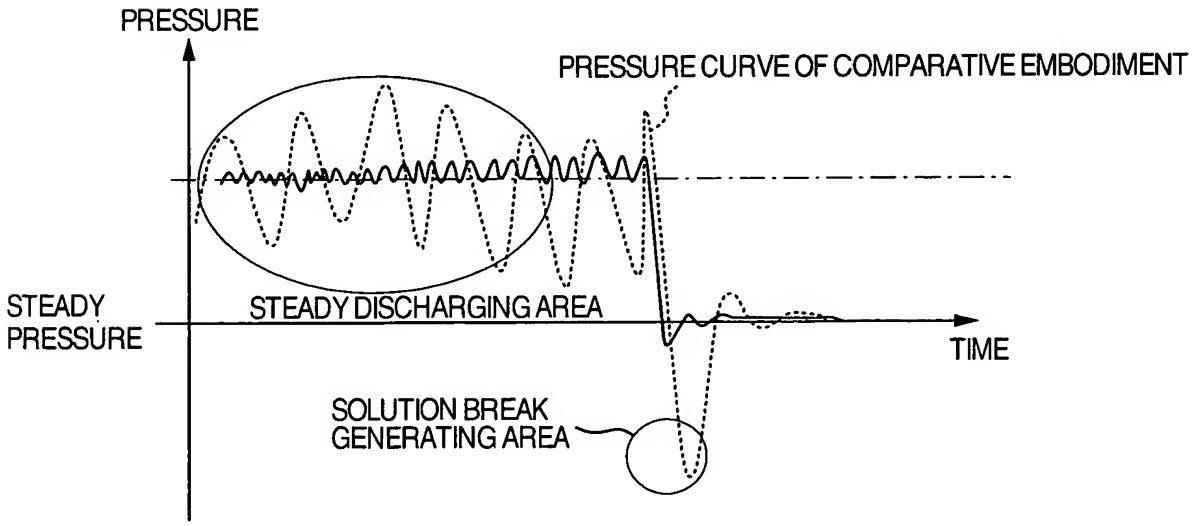

SEPARATED
SOLUTION DROP

(b)

FIG. 10

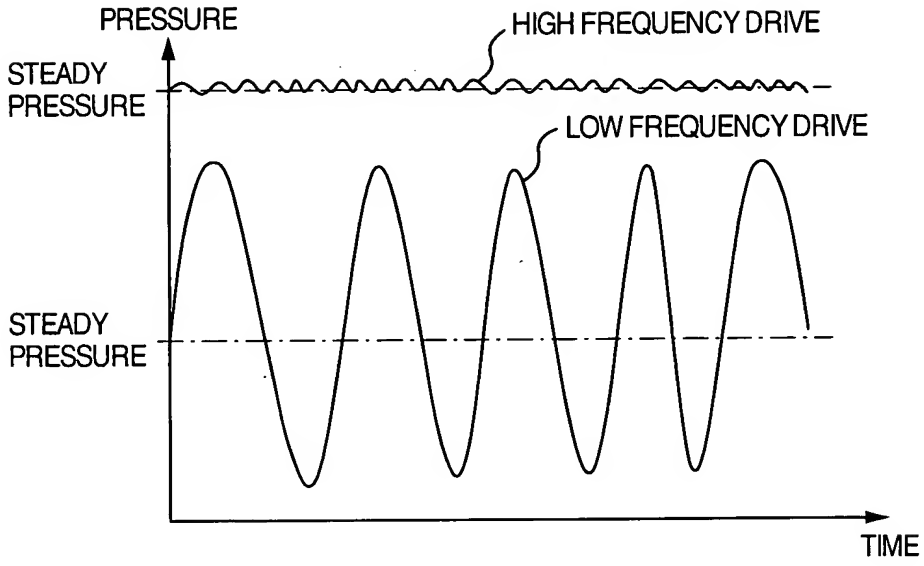


(a) DISCHARGE STARTING TIME



(b) DISCHARGE FINISHING TIME

FIG. 11


PRESSURE
HIGH FREQUENCY DRIVE
STEADY PRESSURE
LOW FREQUENCY DRIVE
STEADY PRESSURE
TIME